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1	/				Filling Date February 19, 20		Group Art Unit	873	
1		1 6 200	U.S	. PATENT	DOCUMENTS				
•EXAMINER INITIAL	N.S.	RADEM OMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING	DATE OPRIATE
AE	,	4,752,922	6/21/1998	MACA	NALLY ET AL	369	32		
Ac	2	6,676,878	1/13/2004	O'BRIE	EN ET AL	264	400		
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A	2	International Search F	Report mailed May	12, 2005	received in corresponding E	CT applicat	tion No. PCT/U	S04/04897	(3pgs).
At At	,	Written Opinion mails	ed May 12, 2005, re	eceived in	corresponding PCT applica	ation No. PC	T/US04/04897 ((3 pgs).	
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*EXAMINER INITIAL	REF	↓_	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	PILING IF APPRO	
Æ	1	5,6	31,190	5/20/1997	NEGLE	CY	438	33		
	2	6,5	80,054	6/17/2003	LIU ET	AL	219	121.68		
	3	6,4	72,295	10/29/2002	MORRI	IS ET AL	438	463		
V	4	200	2/0149136	10/17/2002	BAIRD	ET AL	264	40 0		
NE	5	6,1:	30,401	10/10/2000	YOO E	ΓAL	219	121.6		
				U.S. PATENT	APPLICA	TION PUBLICATIONS			·····	
•EXAMINER INITIAL	REF		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING IF APPRO	ľ
Ac	6	200	2/0031899	3/14/2002	MANOI	R	438	460		
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				FOREI	GN PATE	NT DOCUMENTS				
	REF		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	Transi YES	lation NO
Æ	7	JP1	1163403	6/18/1999	JAPAN	-2 English abstracts	H01L	33/00	123	7
	8	wo	0 02/41362 A2	5/23/2002	PCT		H01L			
	9	wo	00/75983 A1	12/14/2000	PCT		H01L	784		
	10	EP	1137 072 A2	9/26/2001	EPO		H01L	29/201		
AC	11	55-	151351	11/25/1980	JAPAN	w/English abstract	H01L	21/78		7
				OTHER D	OCUMEN	TS (Including Author,	Title, Date, Pe	ertinent Pages, Et	c.)	
1			T. Villenuve, "Nanosecor June 4, 2001.	id pulsed laser in	nprove mi	cro-machining", DesignNe	ws (Reed Els	evier Inc.) 200	Issue 11 p	р. 33-35,
18	AC 12									
A	7	13	D.Hellrung et al, "High-A SPIE-The International S	Accuracy Micror Society for Optic	nachining al Enginee	of Ceramics by Frequency ering, vol. 3618 pp. 348-356	-Tripled Nd: 5, November	YAG-Lasers", 25-27, 1999.	Proceeding	ţs of
EXAMINE	R	М.	Hlexandi	a Elve	2	DATE CONSIDERED	10/6/	05		
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AE	14	5,932,118	8/3/1999	YAMAM	10TO ET AL	219	121.66	IF PETROLIN	MAIE	
	15	5,864,171	1/26/1999	YAMAM	10TO ET AL	257	628			
	16	5,543,365	8/6/1996	WILLS E	ET AL	437	226			
\downarrow	17	3,629,545	12/21/1971	GRAHAI	M ET AL	219	121			
Æ	18	3,699,644	10/24/1972	COCCA		29	527.2			
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AE	19	56-6451	1/23/1981	JAPAN w	v/English abstract	H01L	21/78		<	
	20	57-6650	1/13/1982	JAPAN w	v/English abstract	A61B	17/22		\	
	21	57-81985	5/22/1982	JAPAN w	v/English abstract	B23K	26/00		1	
<u> </u>	22	58-44738	3/15/1983	JAPAN w	v/English abstract	H01L	21/78		1	
AC	23	58-44739	3/15/1983	JAPAN w	v/English abstract	H01L	21/78		<	
		OTHER DOCUM	(-	, Title, Date, Pertinent I	• .	2			
Æ		24 3555, January 24-20, 2	2000, Fgs. 257-244.	•	sing Laser-Induced Plasma ication in Microeletronic a					
AE		A. Ostendorf et al, "M. Physik, No. 57, May 200	aterial Processing 00, Pgs. 1-8.	Applicatio	ons for Diode Pumped Solid	d State Lasers	s'', Lambda Hig	zhlights, La	mbda	
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AC	24	4,851,371	7/25/1989	FISHER	ET AL	437	226	IF APPROPE	<u>liate</u>
	27	4,865,686	9/12/1989	SINOHAI	RA	156	643		
	28	4,964,212	10/23/1990	DEROUX	(-DAUPHIN ET AL	29	852		
	29	4,992,393	2/12/1991	KOSAKA	ET AL	437	83		
AC	50	5,075,201	12/24/1991	кон		430	321		
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NE	31	58-68946	4/25/1983	JAPAN w	/English abstract	H01L	21/78		√
	32	10-64854	3/6/1998	JAPAN w	/English abstract	H01L	21/301		-
	33	11-224866	8/17/1999	JAPAN w	/English abstract	H01L	21/301		1
\downarrow	34	JP2000-4066	1/7/2000	JAPAN w	/English abstract	H01S	5/30		1
AE	35	JP2000-196186	7/14/2000	JAPAN w	/English abstract	H01S	5/10		1
		OTHER DOCUME			, Title, Date, Pertinent P	• .	•		
Æ		36			olid-State Lasers:Manufac				
Ar		Park, Jongkook and Servolume 8, Number 11, D	cel, Patrick, "Hig recember 2002.	h-Speed U	JV Laser Scribing Boosts B	lue LED Ind	lustry", Compo	undSemico	nductor,
EXAMINER	/	M. Alexandira		·	DATE CONSIDERED		16105		
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Æ	38	6,11	17,347	9/12/2000	ISHIDA		216	52	Ir survey.	MIL
	39	6,14	40,151	10/31/2000	AKRAM		438	113		
	40	6,22	25,194	5/1/2001	NOGUCH	HI ET AL	438	464		
	યા	3,62	26,141	12/7/1971	DALY		219	121		
AE	42	3,81	14,895	6/4/1974	FREDRIK	KSEN	219	121		
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Ac	43	61-2	219535	9/29/1986	JAPAN w	v/English abstract	B23P	15/24		1
	44	63-1	174793	7/19/1988	JAPAN w	v/English abstract	B23K	26/00		1
V	45	63-1	183885	7/29/1988	JAPAN w	v/English abstract	B41M	5/26		J
AE	46	wo	03/028943 A1	4/10/2003	PCT		B23K	26/12		
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			OTHER DOCUMEN			, Title, Date, Pertinent P	• .			
AE		48				tes Precise 3-D Structures",				
Æ		49	Lambda Physik, Lambda	i Highlights No.	18, "New I	Resist for 248 NM Successf	ully Investig	ated", August	1989, Pgs. 1	I-4.
EXAMINER	M. Alexandra Elve DATE CONSIDERED 10/6/05									
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AS	50	4,92	21,564	5/1/1990	MOORE		156	344	IF APPROPE	RIATE
AE	51	+-	57,664	10/15/1991	JOHNSO	N ET AL	219	121.69		
	52	33,9	147	6/2/1992	SHINOHA	ARA	156	643		
AE	53	5,13	38,131	8/11/1992	NISHIKA	AWA ET AL	219	121.67		
K	54	5,38	37,776	2/7/1995	PREISER	t	219	121.72		
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			OTHER DOCUMEN	ITS (Including	g Author,	, Title, Date, Pertinent P	ages, Etc.)		
AE		55	Lambda Physik, "Gator"	, DPSS Lasers -	Gator Ser	ies, May 2003.				
Æ	AC Oxford Lasers, "Sapphire Wafer Scribing System			3 System",	, www.oxfordlasers.com.					
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A	E	51	5,811,751	9/22/1998	LEONG	ET AL	219	121.6		
		58	5,961,852	10/5/1999	RAFLA-	YUAN ET AL	219	21.69		.
		59	5,963,364	10/5/1999	LEONG	ET AL	359	352		
1	/	60	5,987,920	11/23/1999	BOSMAN	ET AL	65	23		_
A	8	41	5,994,205	11/30/1999	YAMAM	OTO ET AL	438	464		
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			MEMS and Nanotec	hnology Clearingho	ise. "TPS	Announces The IX-100	M Laser Micro	ndice System!! "	vww mame	net ora
A	2		January 6, 2004.	ology Cicaringnot	136, 31 Gr	Announces The IX-100	DO LASEI MICH	dice System , v	ww.mems	necorg,
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1	C	63	6,413,839	7/2/2002	BROWN	ET AL	438	463		
		64	5,185,295	2/9/1993	СОТО Е	TAL	438	463		
		ょく	5,912,477	1/15/1999	NEGLEY	,	257	95		
	/	64	5,151,389	9/29/1992	ZAPPEL	LA	437	226		
A	E	61	5,214,261	5/25/1993	ZAPPEL	LA	219	121.67		
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AE	48	5,922,224	7/13/1999	BROEKE	ROELOFS	219	121.72			
	49	3,824,678	7/23/1974	HARRIS	ET AL	29	578			
_	.70	3,970,819	7/20/1976	GATES E	ET AL	219	121			
<u> </u>	11	4,046,985	9/6/1977	GATES		219	121			
AE	72	4,224,101	9/23/1980	TIJBURG	G ET AL	156	643	<u> </u>		
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RE	+	4,543,464	9/24/1985	TAKEUC	:HI	219	121		
	14	4,729,971	3/8/1988	COLEMA	N.	437	226		
	15	5,385,633	1/31/1995	RUSSELI	L ET AL	156	693		
<u> </u>	14	5,543,365	8/6/1996	WILLS E	T AL	437	226		
AC	11	5,552,345	9/3/1996	SCHRAN	TZ ET AL	437	227		
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	19	5,872,046	2/16/1999	KAERIY	AMA ET AL	438	465		
	go	5,976,691	11/2/1999	NOGUCH	II ET AL	428	354		
\downarrow	8}	3,816,700	6/11/1974	WEINER	ET AL	219	121		
AE	82	4,237,601	12/9/1980	WOOLH	OUSE ET AL	29	583		
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AC	83	4,336,439	6/22/1982	SASNET	T ET AL	219	121		
	84	4,543,464	9/24/1985	TAKEUC	ЭНІ	219	121		
	85	4,562,333	12/31/1985	TAUB ET	ΓAL	219	121		
\downarrow	84	4,664,739	5/12/1987	AURICH	10	156	344		
AE	87	5,611,946	3/18/1997	LEONG	ET AL	219	121.6		
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	(Use several sheets if necessary)				SERCEL ET AL		GROUP ART UN	nT .	
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			U.S	S. PATENI	T DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME		SUBCLASS	FILING DATE	
AC	88	5,626,777	5/6/1997	HUGL E	HUGL ET AL		121.72		
	89	5,627,109	5/6/1997	SASSA E	SASSA ET AL		460	<u> </u>	
	90	5,703,713	12/30/1997	LEONG	LEONG ET AL		352		
<u> </u>	91	5,801,356	9/1/1998	RICHMAN		219	121.68		
Ar	92	5,809,987	9/22/1998	WARK E	ET AL	125	35		
	·	·	U.S. PATEN	IT APPLIC	CATION PUBLICATIONS				
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Æ	93	6,057,525	5/2/2000	CHANG	CHANGE ET AL		121.73		
	94	6,107,162	8/22/2000	MORIT	MORITA ET AL		462		
	95	6,121,118	9/19/2000	JIN ET	JIN ET AL		460 .		
<u></u>	94	6,365,429	4/2/2002	KNEISS	KNEISSL ET AL		46		
AE	91	6,509,546	1/21/2003	EGITTO	D ET AL	219	121.68		
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	103	Electronicstalk.com, "Deep UV Lasers Scribing	System Boosts LED Yields", Novembe	er 29, 2002, Pro-Talk Limited, UK.					
	104	New Wave Research - Merchantek Products, Press Release - "New Wave Research Unveils High Performance Deep UV Ablation System", January 31, 2001.							
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	106	New Wave Research - Merchantek Products, Products, Products Microelectronics Machining System", November	ess Release - "New Wave Research Un- r 26, 2001.	veils Compact, Tabletop					
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V	108	D.M. Karankis, J. Fieret, P.T. Rumsby and M.C Beams", Exitech Ltd., Oxford, United Kingdom	. Gower, "Microhole Drilling Using Re	eshaped Pulsed Gaussian Laser					
AE	109	Herbst, Ludolf et al, "High Peak Power Solid St Hans-Boeckler-Strasse 12, Goettingen, Germany Fraunhofer Institute of Material and Beam Tech	V' Lambda Physik Inc. 3701 Wast Cam	nonceptal Divid Et Landandala IICA					

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